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DATE MAILED: 12/17/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/718,004	11/21/2000	Thomas R. Birchard	15512-001	9341
75	590 12/17/2002			
WRIGHT, HENSON, SOMERS, SEBELIUS, CLARK & BAKER, LLP 100 E. 9th Street, 2nd Floor			EXAMINER	
			COLAIANNI, MICHAEL	
P.O. Box 3555 Topeka, KS 66601-3555			ART UNIT	PAPER NUMBER
• '			1731	7

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.

09/718,004

Birchard

Examiner

Art Unit



Michael Colaianni 1731 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) X Responsive to communication(s) filed on Oct 21, 2002 2a) X This action is **FINAL**. 2b) This action is non-final. 3) \square Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. Disposition of Claims 4) X Claim(s) 1-17 is/are pending in the application. 4a) Of the above, claim(s) 11-17 is/are withdrawn from consideration. 5) Claim(s) ______ is/are allowed. 6) $\overline{\chi}$ Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are objected to. are subject to restriction and/or election requirement. 8) Claims Application Papers 9) The specification is objected to by the Examiner. 10) \overline{X} The drawing(s) filed on Nov 21, 2000 is/are a) \square accepted or b) \overline{X} objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) \square All b) \square Some* c) \square None of:

12) The oath or declaration is objected to by the Examiner.

Office Action Summary

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No.

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

14) X Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

a) The translation of the foreign language provisional application has been received.

15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s).

4) Interview Summary (PTO-413) Paper No(s).

5) Notice of Informal Patent Application (PTO-152)

6) Other:

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Election/Restriction

1. Claims 11-17 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b) as being drawn to a non-elected invention. Election was made without traverse in Paper No. 4.

2. Applicant's election without traverse of Group I, claims 1-10 in Paper No. 4 is acknowledged.

Drawings

3. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 37. Correction is required.

Claim Objections

4. Claim 2 is objected to because of the following informalities: in line 11, the period "." after "fed" should be deleted and the word "With" should not be capitalized. Appropriate correction is required.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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6. Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the

invention.

Claim 5 refers to "the hook means" which lacks antecedent basis.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

A person shall be entitled to a patent unless --

basis for the rejections under this section made in this Office action:

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 8. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Wellech 2296321.

Wellech teaches a shaping mandrel having a first first end and a second end, said mandrel having a desired shape for receiving around it the molten glass thread such that when the thread is drawn about the desired shape, a formed coil is developed that essentially takes a desired shape from the shaping mandrel (Fig. 1b, ref. no. 50); a block for moving the formed coil in a direction towards the second end in response to additional molten glass thread drawn to the coil (Fig. 1b, ref. no. 55, 60); attachment means for first engaging the molten glass thread (Fig. 1c, ref. no. 50, the hole in the mandrel (50) serves as the attachment means); and variable rotating means for

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rotating the attachment means (page 1, col. 2, lines 50-51, the "proper speed" inherently implies that the motor speed is variable to achieve a "proper" speed).

Wellech also teaches an elongated stablizer bar of sufficient length to support the desired length of the formed glass coil, having a first end adjacent the mandrel (Fig. 1b, ref. no. 50, the "elongated stablizer bar" may be deemed to be merely an extension of the mandrel, i.e. a really long mandrel. Thus, Wellech teaches a stabilizer bar by using the elongated mandrel).

Wellech also teaches the attachment means is slidably engaged with the stabilizing bar (in this case the attachment means (the hole in the mandrel) slides along with the stabilizing bar (the extended mandrel) (Fig. 1b, ref. no. 50).

Wellech also teaches tension adjusting means for controlling the tension between the attachment means and the stabilizing bar (page 1, col. 2, lines 50-51, the "proper speed" inherently implies a variable speed motor whose speed would act to control the tension in the glass thread).

Wellech also teaches means for adjusting the resistance to movement of the formed coil (Fig. 1b, ref. no. 55, 50, the shoe 44 controls the "pitch" of the helix and thus will control the movement of the formed coil).

Wellech also teaches the block having a planar face with a lateral drive point angled with respect to movment of the formed coil, the mandrel extends through the block and the attachment means being attached to the second end of the mandrel (Fig. 1b, ref. no. 50, 55).

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Wellech also teaches the elongated stablizing bar so contructed so that the glass thread moves on the elongated stabilizer bar (Fig. 1b, ref. no. 50).

9. Claims 1-4, 6-7, 9-10 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Klavik AT 107928.

Klavik teaches a shaping mandrel having a first first end and a second end, said mandrel having a desired shape for receiving around it the molten glass thread such that when the thread is drawn about the desired shape, a formed coil is developed that essentially takes a desired shape from the shaping mandrel (Fig. 2, ref. no. 1); a block for moving the formed coil in a direction towards the second end in response to additional molten glass thread drawn to the coil (Fig. 1 and 2, ref. no. 2); attachment means for first engaging the molten glass thread (Fig. 2, ref. no. 1 and 5, the glass member 5 is held to the mandrel 1 by some attachment means as evidenced by the partial strand shown on the mandrel); and variable rotating means for rotating the attachment means (1 paragraph, the mandrel 1 rotates. The limitation that the rotating means is variable is not relevant because it goes to a method of operation, not a structural limitation of the apparatus claims).

Klavik also teaches an elongated stablizer bar of sufficient length to support the desired length of the formed glass coil, having a first end adjacent the mandrel (Fig. 2, ref. no. 1, the "elongated stablizer bar" may be deemed to be merely an extension of the mandrel, i.e. a really long mandrel. Thus, Klavik teaches a stabilizer bar by using the elongated mandrel).

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Klavik also teaches the attachment means is slidably engaged with the stablizing bar (in this case the attachment means slides along with the stabilizing bar (the extended mandrel) (Fig. 2, ref. no. 1 and 5).

Klavik also teaches means for adjusting the resistance to movement of the formed coil (Fig. 2, ref. no. 2 and 2, the shoe 2 controls the "pitch" of the helix and thus will control the movement of the formed coil).

Klavik also teaches the block having a planar face with a lateral drive point angled with respect to movment of the formed coil, the mandrel extends through the block and the attachment means being attached to the second end of the mandrel (Fig. 2, ref. no. 1 and 2).

Klavik also teaches the elongated stablizing bar so contructed so that the glass thread moves on the elongated stabilizer bar (Fig. 2, ref. no. 1 and 2).

While it is believed that Klavik teaches a variable rotating means, in the alternative, it would have been prima facie obvious to use a variable rotating means with Klavik's tube bending apparatus because doing so would provide for better control of the bending and permit the glass tubing to be bent at the proper speed. Also, the speed of rotation will determine the tubing thickness because of the drawing of the tube the mandrel, thus control the rotating speed is crucial to the proper helix thickness and length.

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Response to Arguments

10. Applicant's arguments filed October 21, 2002 have been fully considered but they are not

persuasive.

Wellech Rejection

Applicant argues that the case for anticipation of claims 1-10 has not been established

because Wellech allegedly does not teach a tension adjusting means for controlling the tension

between the attachment means and stabilizing bar. The Examiner respectfully disagrees.

It is noted that applicant is arguing a limitation that is in dependent claim 5, while ignoring

the rejection of claims 1-4 and 6-10 over Wellech. There is no requirement of a "tension

adjusting means" in claims 1-4 or 6-10 and so it is assumed that there is no dispute that Wellech

anticipates these claims. As to claim 5, the Examiner clearly indicated in the above rejection where

Wellech teaches a tension adjust means. Applicant argues that Wellech's wheel 63 is not a tension

adjust means. This may or may not be so, but the portion referred to by the Examiner referred to

pulley 20 as being the tension adjust means. The rejection is still deemed proper and is sustained.

Klavik Rejection

Applicant argues that Klavik fails to teach or render obvious applicant's claim to a "means

for adjusting resistance to the movement of the coil." As with Wellech, Applicant is arguing

limitations in a dependent claims while ignoring the rejection of the rest of the claims. Again, it is

assumed that there is no dispute that Klavik anticipates and/or renders obvious applicant's claimed

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invention regarding these non-discussed claims. It also noted that applicant admits that Klavik teaches using resistance. Klavik also, necessarily, teaches controlling the resistance to movement of the coil by using shoe 2 in Figure 2. The resistance necessarily must be adjusted by shoe 2, otherwise the soft coil would be distorted and mishapen by undesirable forces caused by the resistance. The rejection is still deemed proper and is sustained.

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Conclusion

11. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Colaianni whose telephone number is (703) 305-5493. The examiner can normally be reached on Monday to Friday from 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin, can be reached on (703) 308-1164. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-7115.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0651.

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MICHAEL COLAIANNI PRIMARY EXAMINER